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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/501,619	05/25/2005	Joachim Christ	37742-97114	2228
	7590 03/05/2007 IORNBURG LLP	EXAMINER		
P.O. BOX 2786			NGUYEN, XUAN LAN T	
CHICAGO, IL 60690-2786			ART UNIT	PAPER NUMBER
	•		3683	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/05/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/501,619	CHRIST, JOACHIM				
Office Action Summary	Examiner	Art Unit				
	Lan Nguyen	3683				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from cause the application to become ABANDO	ON. Itimely filed om the mailing date of this communication. NED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>08 Fe</u>	phruany 2007	•				
	This action is FINAL . 2b)⊠ This action is non-final.					
· <u>-</u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>12-31</u> is/are pending in the application.						
4a) Of the above claim(s) <u>15-31</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>12-14</u> is/are rejected.						
7) Claim(s) is/are objected to.	•					
8) Claim(s) are subject to restriction and/or	r election requirement.					
,	oloolon roquilomone.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>14 July 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Offi	ce Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicative documents have been rece i (PCT Rule 17.2(a)).	ation No ived in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summa	ary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/21/04. 5) Notice of Informal Patent Application 6) Other:						
	o, <u> </u>					

Art Unit: 3683

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Species A in the reply filed on 2/8/07 is acknowledged. The requirement is still deemed proper and is therefore made FINAL.

Information Disclosure Statement

2. Document 1913910 listed on the IDS dated 10/21/04 has been lined out since the document is missing from the file. It would be appreciated if Applicant would resubmit said document.

Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.

Application/Control Number: 10/501,619

Art Unit: 3683

(2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.

Page 3

- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 4. Claim 14 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - Claim 14 recites the limitation "the friction lining" in line 2. There is insufficient
 antecedent basis for this limitation in the claim.
 - Claim 14 also recites the limitation "coaxial" without reference to which axis or element that the inlet opening is being coaxial with.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Fuchs (DE 1903437).

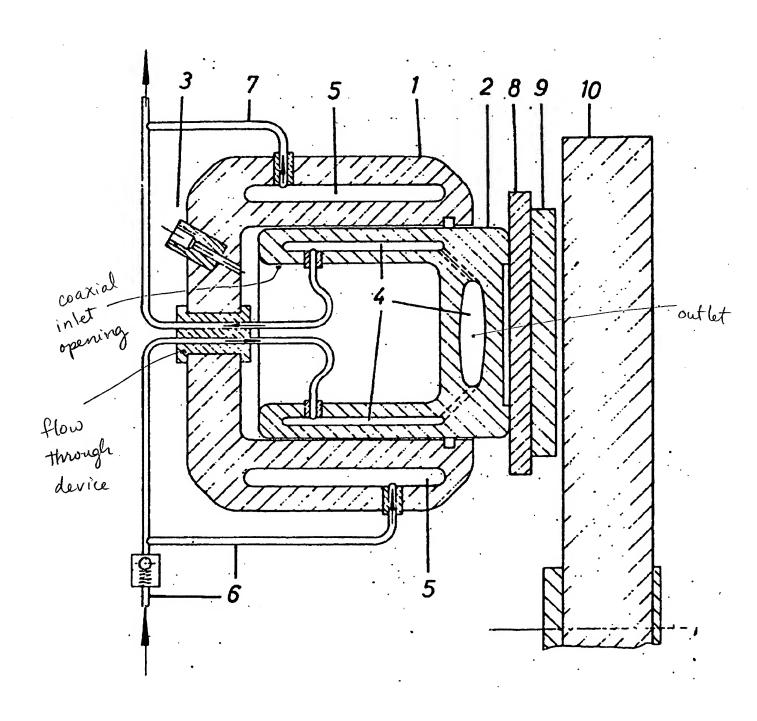
Re: claim 1, Fuchs shows a brake caliper in figure 1, as in the present invention, having a caliper wall, the caliper wall defining a cylinder 1 with at least one axially displaceable, hydraulically actuated piston 2 received in the cylinder, with which a brake pad 8, 9 can be pressed against a brake disc 10, the piston defining a cavity 4 therewithin, with at least one inlet opening for feeding a cooling medium into the cavity, the inlet opening being arranged in the piston spaced away from the brake pad, and at least one outlet opening arranged in the piston adjacent to the brake pad for discharging cooling medium from the cavity, as marked below, characterized in that a flow through device, as marked below, extends from the caliper wall into the interior space of the piston to allow passage of cooling medium from outside the caliper wall to the cavity, as shown.

Re: claim 13, Fuchs shows the flow through device to be integral with the wall of the brake caliper, as shown.

Application/Control Number: 10/501,619

Art Unit: 3683

Re: claim 14, Fuchs also shows the piston comprises a hollow cylinder, wherein the friction lining 9 is located on one face end of the cylinder and a coaxial inlet opening as marked below, through which the flow-through device extends, is provided in the other face end.



Art Unit: 3683

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 8. Claims 12-14 are rejected under 35 U.S.C. 102(a) as being anticipated by Cortanze (DE 10034364 A1).

Re: claim 1, Cortanze shows a brake caliper in figure 2, as in the present invention, having a caliper wall, the caliper wall defining a cylinder, with at least one axially displaceable, hydraulically actuated piston 1 received in the cylinder, with which a brake pad 8 can be pressed against a brake disc 9, the piston defining a cavity, therewithin, with at least one inlet opening 12 for feeding a cooling medium into the cavity, the inlet opening being arranged in the piston spaced away from the brake pad, and at least one outlet opening 11 arranged in the piston adjacent to the brake pad for discharging cooling medium from the cavity, characterized in that a flow through device 13, extends from the caliper wall into the interior space of the piston to allow passage of cooling medium from outside the caliper wall to the cavity, as shown.

Re: claim 13, Fuchs shows the flow through device to be integral with the wall of the brake caliper, as shown.

Re: claim 14, Fuchs also shows the piston comprises a hollow cylinder, wherein the friction lining 8 is located on one face end of the cylinder and a coaxial inlet opening through which the flow-through device extends, is provided in the other face end.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Schwartz and Ogino et al. are cited for other brake systems with cooling arrangements.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lan Nguyen whose telephone number is (571) 272-7121. The examiner can normally be reached on Monday through Friday, 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James McClellan can be reached on (571) 272-6786. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/501,619

Art Unit: 3683

/Xuan Lan Nguyen/ 2-28-07 Primary Examiner Art Unit 3683

Page 8